

Long Exposure Charts

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1-stop to 5-stop

Indicated Shutter Speed	1-stop	2-stop	3-stop	4-stop	5-stop
1/8000	1/4000	1/2000	1/1000	1/500	1/250
1/6400	1/3200	1/1600	1/800	1/400	1/200
1/5000	1/2500	1/1250	1/640	1/320	1/160
1/4000	1/2000	1/1000	1/500	1/250	1/125
1/3200	1/1600	1/800	1/400	1/200	1/100
1/2500	1/1250	1/640	1/320	1/160	1/80
1/2000	1/1000	1/500	1/250	1/125	1/60
1/1600	1/800	1/400	1/200	1/100	1/50
1/1250	1/640	1/320	1/160	1/80	1/40
1/1000	1/500	1/250	1/125	1/60	1/30
1/800	1/400	1/200	1/100	1/50	1/25
1/640	1/320	1/160	1/80	1/40	1/20
1/500	1/250	1/125	1/60	1/30	1/15
1/400	1/200	1/100	1/50	1/25	1/13
1/320	1/160	1/80	1/40	1/20	1/10
1/250	1/125	1/60	1/30	1/15	1/8
1/200	1/100	1/50	1/25	1/13	1/6
1/160	1/80	1/40	1/20	1/10	1/5
1/125	1/60	1/30	1/15	1/8	1/4
1/100	1/50	1/25	1/13	1/6	0.3
1/80	1/40	1/20	1/10	1/5	0.4
1/60	1/30	1/15	1/8	1/4	0.5
1/50	1/25	1/13	1/6	0.3	0.6
1/40	1/20	1/10	1/5	0.4	0.8
1/30	1/15	1/8	1/4	0.5	1
1/25	1/13	1/6	0.3	0.6	1.3

1/20	1/10	1/5	0.4	0.8	1.6
1/15	1/8	1/4	0.5	1	2
1/13	1/6	0.3	0.6	1.3	2.5
1/10	1/5	0.4	0.8	1.6	3.2
1/8	1/4	0.5	1	2	4
1/6	0.3	0.6	1.3	2.5	5
1/5	0.4	0.8	1.6	3.2	6
1/4	0.5	1	2	4	8
0.3	0.6	1.3	2.5	5	10
0.4	0.8	1.6	3.2	6	13
0.5	1	2	4	8	15
0.6	1.3	2.5	5	10	20
0.8	1.6	3.2	6	13	25
1s	2	4	8	15	30
1.3s	2.5	5	10	20	42
1.6s	3.2	6	13	25	51
2s	4	8	15	30	1m 4s
2.5s	5	10	20	40	1m 20s
3.2s	6	13	25	51	1m 42s
4s	8	15	40	1m 4s	2m 8s
5s	10	20	48	1m 20s	2m 40s
6s	13	25	104	1m 36s	3m 12s
8s	15	30	1m 4s	2m 8s	4m 16s
10s	20	40	1m 20s	2m 40s	5m 20s
13s	25	52	1m 44s	3m 28s	6m 56s
15s	30	1m	2m	4m	8m
20s	40	1m 20s	2m 40s	5m 20s	10m 40s
25s	50	1m 40s	3m 20s	6m 40s	13m 20s
30s	1m	2m	4m	8m	16m
	1-stop	2-stop	3-stop	4-stop	5-stop

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6-stop to 10-stop

Indicated Shutter Speed	6-stop	7-stop	8-stop	9-stop	10-stop
1/8000	1/125	1/60	1/30	1/15	1/8
1/6400	1/100	1/50	1/25	1/13	1/6
1/5000	1/80	1/40	1/20	1/10	1/5
1/4000	1/60	1/30	1/15	1/8	1/4
1/3200	1/50	1/25	1/13	1/6	0.3
1/2500	1/40	1/20	1/10	1/5	0.4
1/2000	1/30	1/15	1/8	1/4	0.5
1/1600	1/25	1/13	1/6	0.3	0.6
1/1250	1/20	1/10	1/5	0.4	0.8
1/1000	1/15	1/8	1/4	0.5	1
1/800	1/13	1/6	0.3	0.6	1.3
1/640	1/10	1/5	0.4	0.8	1.6
1/500	1/8	1/4	0.5	1	2
1/400	1/6	0.3	0.6	1.3	2.5
1/320	1/5	0.4	0.8	1.6	3.2
1/250	1/4	0.5	1	2	4
1/200	0.3	0.6	1.3	2.5	5
1/160	0.4	0.8	1.6	3.2	6
1/125	0.5	1	2	4	8
1/100	0.6	1.3	2.5	5	10
1/80	0.8	1.6	3.2	6	13
1/60	1	2	4	8	15
1/50	1.3	2.5	5	10	20
1/40	1.6	3.2	6	13	25
1/30	2	4	8	15	30

1/25	2.5	5	10	20	41
1/20	3.2	6	13	25	51
1/15	4	8	15	30	1m 8s
1/13	5	10	20	39	1m 19s
1/10	6	13	25	51	1m 42s
1/8	8	15	30	1m 4s	2m 8s
1/6	10	20	43	1m 25s	2m 51s
1/5	13	25	51	1m 42s	3m 25s
1/4	15	30	1m 4s	2m 8s	4m 16s
0.3	20	38	1m 17s	1m 34s	5m 7s
0.4	25	51	1m 42s	3m 25s	6m 50s
0.5	30	1m 4s	2m 8s	4m 16s	8m 32s
0.6	38	1m 17s	1m 34s	5m 7s	10m 14s
0.8	51	1m 42s	3m 25s	6m 50s	13m 39s
1s	1m 4s	2m 8s	4m 16s	8m 32s	17m 4s
1.3s	1m 23s	2m 46s	5m 32s	11m 6s	22m 11s
1.6s	1m 42s	3m 25s	6m 50s	13m 39s	27m 18s
2s	2m 8s	4m 16s	8m 32s	17m 4s	34m 8s
2.5s	2m 40s	5m 20s	10m 40s	21m 20s	42m 40s
3.2s	3m 25s	6m 50s	13m 39s	27m 18s	54m 37s
4s	4m 16s	8m 32s	17m 4s	34m 8s	1h 8m 16s
5s	5m 20s	10m 40s	21m 20s	42m 40s	1h 25m 20s
6s	6m 22s	12m 48s	25m 36s	51m 12s	1h 42m 24s
8s	8m 32s	17m 4s	34m 8s	1h 8m 16s	2h 16m 32s
10s	10m 40s	21m 20s	42m 40s	1h 25m 20s	2h 50m 40s
13s	13m 52s	27m 44s	55m 28s	1h 50m 56s	3h 41m 52s
15s	16m	32m	1h 4m	2h 8m	4h 16m
20s	21m 20s	42m 40s	1h 25m 20s	2h 50m 40s	5h 41m 20s
25s	26m 40s	53m 20s	1h 46m 40s	3h 33m 20s	7h 6m 20s
30s	32m	1h 4m	2h 8m	4h 16m	8h 32m
	6-stop	7-stop	8-stop	9-stop	10-stop

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11-stop to 16-stop

Indicated Shutter Speed	11-stop	12-stop	13-stop	14-stop	15-stop	16-stop
1/8000	1/4	0.5	1	2	4	8
1/6400	0.3	0.6	1.3	2.5	5	10
1/5000	0.4	0.8	1.6	3.2	6	13
1/4000	0.5	1	2	4	8	15
1/3200	0.6	1.3	2.5	5	10	20
1/2500	0.8	1.6	3.2	6	13	25
1/2000	1	2	4	8	15	30
1/1600	1.3	2.5	5	10	20	41
1/1250	1.6	3.2	6	13	25	52
1/1000	2	4	8	15	30	1m 6s
1/800	2.5	5	10	20	41	1m 22s
1/640	3.2	6	13	25	51	1m 42s
1/500	4	8	15	30	1m 6s	2m 11s
1/400	5	10	20	41	1m 22s	2m 44s
1/320	6	13	25	51	1m 42s	3m 25s
1/250	8	15	30	1m 6s	2m 11s	4m 22s
1/200	10	20	41	1m 22s	2m 44s	5m 28s
1/160	13	25	51	1m 42s	3m 25s	6m 50s
1/125	15	30	1m 6s	2m 11s	4m 22s	8m 44s
1/100	20	41	1m 22s	2m 44s	5m 28s	10m 55s
1/80	25	51	1m 42s	3m 25s	6m 50s	13m 39s
1/60	30	1m 8s	2m 17s	4m 33s	9m 6s	18m 12s
1/50	41	1m 22s	2m 44s	5m 28s	10m 55s	21m 51s
1/40	51	1m 42s	3m 25s	6m 50s	13m 39s	27m 18s
1/30	1m 8s	2m 17s	4m 33s	9m 6s	18m 12s	36m 25s
1/25	1m 22s	2m 44s	5m 28s	10m 55s	21m 51s	43m 41s
1/20	1m 42s	3m 25s	6m 50s	13m 39s	27m 18s	54m 37s

1/15	2m 17s	4m 33s	9m 6s	18m 12s	36m 25s	1h 12m 49s
1/13	2m 38s	5m 15s	10m 30s	21m	42m 1s	1h 24m 1s
1/10	3m 25s	6m 50s	13m 39s	27m 18s	54m 37s	1h 49m 14s
1/8	4m 16s	8m 32s	17m 4s	34m 8s	1h 8m 16s	2h 16m 32s
1/6	5m 41s	11m 23s	22m 45s	45m 31s	1h 31m 1s	3h 2m 3s
1/5	6m 50s	13m 39s	27m 18s	54m 37s	1h 49m 14s	3h 38m 27s
1/4	8m 32s	17m 4s	34m 8s	1h 8m 16s	2h 16m 32s	4h 33m 4s
0.3	10m 14s	20m 29s	40m 58s	1h 21m 55s	2h 43m 50s	5h 27m 41s
0.4	13m 39s	27m 18s	54m 37s	1h 49m 14s	3h 38m 27s	7h 16m 54s
0.5	17m 4s	34m 8s	1h 8m 16s	2h 16m 32s	4h 33m 4s	9h 6m 8s
0.6	20m 29s	40m 58s	1h 21m 55s	2h 43m 50s	5h 27m 41s	10h 55m 22s
0.8	27m 18s	54m 37s	1h 49m 14s	3h 38m 27s	7h 16m 54s	14h 33m 49s
1s	34m 8s	1h 8m 16s	2h 16m 32s	4h 33m 4s	9h 6m 8s	18h 12m 16s
1.3s	44m 22s	1h 28m 45s	2h 57m 30s	5h 54m 59s	11h 49m 58s	23h 39m 57s
1.6s	54m 37s	1h 49m 14s	3h 38m 27s	7h 16m 54s	14h 33m 49s	29h 7m 38s
2s	1h 8m 16s	2h 16m 32s	4h 33m 4s	9h 6m 8s	18h 12m 16s	36h 24m 32s
2.5s	1h 25m 20s	2h 50m 40s	5h 41m 20s	11h 22m 40s	22h 45m 20s	45h 30m 40s
3.2s	1h 49m 14s	3h 38m 27s	7h 16m 54s	14h 33m 49s	29h 7m 38s	58h 15m 16s
4s	2h 16m 32s	4h 33m 4s	9h 6m 8s	18h 12m 16s	36h 24m 32s	72h 49m 4s
5s	2h 50m 40s	5h 41m 20s	11h 22m 40s	22h 45m 20s	45h 30m 40s	91h 1m 20s
6s	3h 24m 48s	6h 49m 36s	13h 39m 12s	27h 18m 24s	54h 36m 48s	109h 13m 36s
8s	4h 33m 4s	9h 6m 8s	18h 12m 16s	36h 24m 32s	72h 49m 4s	145h 38m 8s
10s	5h 41m 20s	11h 22m 40s	22h 45m 20s	45h 30m 40s	91h 1m 20s	182h 2m 40s
13s	7h 23m 44s	14h 47m 28s	29h 34m 56s	59h 9m 52s	118h 19m 44s	236h 39m 28s
15s	8h 32m	17h 4m	34h 8m	68h 16m	136h 32m	273h 4m
20s	11h 22m 40s	22h 45m 20s	45h 30m 40s	91h 1m 20s	182h 2m 40s	364h 5m 20s
25s	14h 13m 20s	28h 26m 40s	56h 53m 20s	113h 46m 40s	227h 33m 20s	455h 6m 40s
30s	17h 4m	34h 8m	68h 16m	136h 32m	273h 4m	546h 8m
	11-stop	12-stop	13-stop	14-stop	15-stop	16-stop